

## **DRAFT - NHD and Repositioning Guidelines from The Digital Hydrography Data Development Stakeholders Meeting April 15-16, 2002**

Stakeholders at the meeting identified a wide range of uses and needs for the NHD. There was general agreement that a statewide 24 K NHD needs to be developed and distributed rapidly. Users requiring higher resolution or more detailed attribution (such as reaches designated as county drains) will be able to build on the 24k NHD. A process will need to be developed for updating the NDH based on local knowledge.

### **Scale/Accuracy**

Note: No features will be removed from framework or NHD hydrography unless it conflicts with other new features that share the same space

- Polygon features (lakes, ponds, islands) – 1 acres Min
- Line work (streams, lakeshores)  $\pm$  40 ft
- Single - double bank transition: 2 banks will be added if over 50 ft wide for over 1000 ft
- Double bank – center line must fall within river as displayed on the DOQ
- Detail – general pattern and shape is needed
- Include all streams and drains visible on DOQ
- Shape (sinuosity) important for some applications

It was noted that for presentation it is not necessary to show hydrography lines on DOQ backdrops. There is a need to educate users on uses and purpose of NHD.

**Artificial path:** Need to capture divergent flow paths for modeling – artificial path should be within lake polygon and on both sides of any islands in the 2-bank rivers. Artificial paths through swamps:

- if the channel is visible on the DOQ add as a stream reach not an AP
- if the channel is not visible on the DOQ, add AP through swamps using DRGs and 100K swamps as guides (these APs will require a hand-entered attribute indicating they flow through a wetland 2-D feature).

### **Connectors**

Connectors must be consistent with flow directions (downhill); always use DRGs

- Hydro Studies, LWMD, DEQ has defined many contributing areas and connectors for UP

County drain maps and soils maps provide detailed sources of information for future refinement.

**Significant features** such as bridges, culverts, dams and USGS gages need to be identified as nodes on the NHD with links to databases containing attributes.